

# Rithvik Allada

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## EDUCATION

**B.M.S. College of Engineering**  
*B.E. Information Science and Engineering*

Bangalore, Karnataka  
Nov. 2022 – May 2026

## PROJECTS

**Steam Price Tracker MCP Server** | *Python, FastMCP, PostgreSQL, Resend API, Render*



- Developed a **Model Context Protocol (MCP) server** for tracking Steam game prices, managing alerts, and delivering notifications.
- Implemented **price alerts, top deals, and daily deal subscriptions** with **email integration** using Resend API.
- Designed **multi-user support** with PostgreSQL schema for user management, alerts, and subscriptions.
- Optimized backend with **async/await concurrency**, background job scheduling, and secure Bearer token authentication.
- Deployed on **Render.com**, running scheduled price checks every 12 hours and nightly deal notifications, and **adopted by 100+ users**.

**PasteShare** | *React, TypeScript, Node.js, Express, PostgreSQL, Sequelize, Docker, Tailwind CSS*

[Live](#)

- Developed a **modern pastebin application** for sharing **code snippets, text, and file attachments** with **Jupyter-style notebook display** and syntax highlighting for 15+ languages and 30+ themes.
- Implemented **custom URL generation** with **real-time validation, paste expiry options**, and **private/editable pastes** for enhanced content management.
- Built **termbin-style raw endpoints** (`/raw/:id`) enabling direct **curl access** for seamless command-line integration and automated workflows.
- Designed a **mobile-responsive UI** with Tailwind CSS, featuring adaptive layouts, dark mode, and print-friendly views across all device sizes.
- Architected a **serverless-optimized backend** with per-request database connections and connection pooling for Supabase PostgreSQL.
- Created **comprehensive Docker containerization** with separate development and production configurations supporting hot-reload and automated deployment.

**BlogNest** | *Flask, SQLite, Python, Bootstrap, HTML, CSS, Bcrypt*

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- Developed a **blog platform** with Flask, enabling **CRUD operations** on posts using **SQLite**.
- Implemented **user authentication** with Flask-Login and **password hashing** via Bcrypt.
- Integrated **pagination** for efficient content navigation and improved user experience.
- Designed a **responsive UI** with Bootstrap and **server-side rendering** for dynamic content.
- Structured the codebase **modularly**, ensuring **maintainability** and **scalability**.

## RESEARCH & ACHIEVEMENTS

- Secured **8th place** out of **8,000+ teams** at the **PuchAI Hackathon (2025)**, winning **\$15,000 in prizes** for innovative AI-driven solutions.
- Built and maintained an **open-source Linux configuration suite** for Arch Linux + Hyprland, gaining **100+ users worldwide** and **30+ GitHub stars**.
- Published **Machine Learning research** in *IJISRT (2025)*, developing a predictive model for **student depression** using Logistic Regression, Decision Tree, and Random Forest with **84% accuracy**. [Read Paper]

## TECHNICAL SKILLS

**Programming Languages:** Go, Python, TypeScript, JavaScript, C++, Java, Kotlin

**Backend Development:** RESTful APIs, gRPC, Go, Node.js (Express), Flask, PostgreSQL, SQLite, MySQL, MongoDB

**Frontend Development:** React.js, TailwindCSS, Bootstrap, HTML, CSS

**DevOps & Deployment:** Linux, Docker, AWS, GCP, Git, GitHub, Jenkins, GitHub Actions, CI/CD

**Machine Learning:** Scikit-learn, Pandas, NumPy